

What is claimed is:

1. A linear type actuator comprising:  
a stator unit having coils consisting of wound magnet  
5 wires and housed inside stator sub-assemblies and pole teeth  
arranged on an inner circumference thereof;  
a rotor unit having a field magnet arranged on an outer  
circumference thereof and rotatably disposed so as to oppose  
said pole teeth with a given gap;  
10 an output shaft attached to a center portion of said  
rotor unit and movable in the axial direction thereof; and  
converting means provided on an innermost diametral  
circumferential surface of said rotor unit and adapted to  
convert rotary motion of said rotor unit into linear motion of  
15 said output shaft,  
wherein said converting means is made of a material  
different from that of said rotor unit.
2. The linear type actuator as set forth in claim 1,  
20 wherein said converting means is configured with a plurality  
of straight sides and has corners thereof rounded.
3. The linear type actuator as set forth in claim 1,  
wherein said rotor unit is integrally constituted by insert  
25 molding said field magnet, magnet stoppers adapted to hold said  
field magnet and also to protect end corners thereof, and said  
conversion means.